

# EARTHWOOL®



## HIGH PERFORMANCE, INSULATION SOLUTIONS FOR METAL ROOFS



REDUCES  
ENERGY BILLS



MADE WITH  
RECYCLED GLASS



LOW  
CARBON



NON  
COMBUSTIBLE



NO HARMFUL  
INGREDIENTS



THERMALLY  
EFFICIENT



ACOUSTIC  
PERFORMANCE



SOFT  
HANDLING



MOISTURE  
RESISTANCE

Manufactured by  
**KNAUFINSULATION**

**Innovation and production made possible by the largest and most advanced glasswool manufacturing facility in Malaysia.**



**Plant size**  
40+ acres  
(164,400 m<sup>2</sup>)



**Production since**  
April 2021



**Employees**  
230+



## SOLUTIONS SPECIFIC TO SINGAPORE

Recognising Singapore's unique climate and insulation needs, Knauf Insulation is attuned to Singapore's tropical environment and specific construction demands.

Our products are tailored to efficiently address the specific climatic conditions of Singapore, emphasising sustainability and lightweight solutions that surpass conventional insulation standards.

This comprehensive range ensures optimal thermal comfort and energy efficiency, meeting specific requirements across commercial, industrial, and residential sectors, for both new and existing buildings.

**KNAUF**

Knauf Insulation is part of the Knauf Group, a global market leader in the field of sustainable lightweight construction.

■ Knauf Group

>€16bn  
turnover

41,500+  
employees worldwide

300  
plants & offices

90+  
countries



■ Knauf Insulation



>€2.5bn  
turnover



6000+  
employees worldwide



28  
plants & offices



40+  
countries

Knauf Insulation glasswool products **meet stringent performance standards** and are **certified by industry recognised bodies** to give confidence for use in buildings.

## ENHANCED QUALITY ASSURANCE



### ISO 9001: QUALITY MANAGEMENT CERTIFICATION

All of our products are made within the ISO 9001 quality management system ensuring that we deliver consistent performance, quality and service across our entire product range.



### ILAC MUTUAL RECOGNITION ARRANGEMENT

Knauf Insulation's laboratory in Malaysia is accredited under the ILAC Mutual Recognition Arrangement (ILAC MRA), demonstrating its technical competency in accordance with MS ISO/IEC 17025:2017, on thermal conductivity measurement.



This accreditation ensures the consistent delivery of technically valid test results and calibrations from the laboratory.

## LOW ENVIRONMENTAL IMPACT



### GLOBAL GREENTAG<sup>CERT™</sup> GREENRATE<sup>™</sup> LEVEL A CERTIFIED

Knauf Insulation glasswool has the prestigious GreenRate<sup>™</sup> Level A certification. This affirms the exceptional status of Knauf Insulation glasswool products meeting the toughest standards for health, eco performance and safety.



### ISO 14001: ENVIRONMENTAL MANAGEMENT

All of our products are manufactured in accordance with the ISO 14001 Environmental Management system, demonstrating our commitment to minimise our impact on the environment.



### ISO 50001: ENERGY MANAGEMENT

All of our products are manufactured in accordance with the ISO 50001 Energy Management system, demonstrating our commitment to conserving resources and minimising the impact of our processes through efficient energy management.

## NATIONAL PRODUCT CERTIFICATION AND ACHIEVEMENTS



To learn more scan the QR codes or visit [www.knauf.com](http://www.knauf.com).

## NO HARMFUL CHEMICALS

### Declare.



### CERTIFIED DECLARE RED LIST FREE

The Declare label on our products demonstrates our commitment to transparency and is provided for products which declare 100% of their ingredients.

The Red List Free label confirms that no ingredients are added to our products which are on the Living Building Challenge (LBC) Red List of "worst in class" materials, chemicals and elements known to pose risks to human health.

## BEST-IN-CLASS LOW EMISSIONS FOR OPTIMUM INDOOR AIR QUALITY



### EUROFINS GOLD CERTIFICATE FOR INDOOR AIR COMFORT

Our products have been awarded the Eurofins Gold Certificate for Indoor Air Comfort which is designed to demonstrate products with the best-in-class low levels of Volatile Organic Compound (VOC) emissions.

## BIO-SOLUBLE AND SAFE TO USE



### EUCEB CERTIFIED

All of our products are EUCEB certified demonstrating that they are bio-soluble and are safe to use.



### ISO 45001: OH&S MANAGEMENT

All of our products are manufactured in accordance with the ISO 45001 Occupational Health & Safety Management system, demonstrating our commitment to worker health & safety.

## ADVANCED TECHNOLOGY



### ECOSE<sup>®</sup> Technology

Low carbon plant-based binder which is less energy intensive than traditional glasswool binders.



### TwinTech<sup>®</sup> Technology

Advanced dual-forming provides a high quality smooth finish on both sides.



### DriTherm<sup>®</sup> Technology

A water-repellent additive designed to resist moisture and enhance durability in damp and humid conditions.

# Features and benefits of Earthwool insulation

From manufacture to installation, **there is innovation at every stage.**



**THERMALLY EFFICIENT**

The **thermal properties** of Earthwool glasswool products act as a barrier to the outside elements to limit heat loss in winter and heat gain in summer through your roofs, walls and floors. Buildings stay at a comfortable temperature all year-round.



**MADE USING RECYCLED GLASS**

Our insulation is made from **up to 80% recycled glass**. Our new generation furnace uses more grades of glass than glass furnaces, taking more waste out of our environment.



**SUSTAINABLY MANUFACTURED**

**ECOSE® Technology** is a sustainable, plant-based binder with **no added formaldehyde**. The natural, earthy brown colour comes from no added dyes or colours.



**RIGIDITY**

Offering higher rigidity, making it easier for installers to handle during installation. **Manufactured with TwinTech® Technology**, an innovative process which gives the insulation a smooth finish on both sides.



**LOW VOCs**

Earthwool glasswool is supported by **Eurofins Indoor Air Comfort Gold** certification as an 'outstanding material' with low levels of VOCs (Volatile Organic Compounds) according to Indoor Air Quality Emissions certification.



**EASY TO HANDLE**

Our insulation is **super-soft**, making it easier to handle and install. There's no odour, less dust and less itch than traditional glasswool insulation.



# EARTHWOOL®



## REDUCES ENERGY BILLS

By insulating a building properly, energy can be saved from the air-conditioning system when cooling a warm building and when heating during winter. Earthwool insulation **saves energy and saves money.**



## WATER REPELLENT

Engineered for longevity - our **DriTherm® Technology boasts silicone treatment**, designed to resist moisture, particularly important in humid climates.



## SOUND ABSORBING

Earthwool insulation products will improve the **acoustic performance** of the building in which they have been installed by absorbing the transfer of unwanted noise from external sources and between adjoining rooms, helping create peaceful and quiet buildings.



## NON-COMBUSTIBLE

Earthwool insulation is certified as **non-combustible** and will not contribute to fire spread.

Tested in accordance with:

- B.S. 476: Part 4 Non-combustibility, and BOMBA Class '0'
- B.S. 476: Part 7 Surface spread of flame
- B.S. 476: Part 6 Fire propagation
- BS EN13501-1 Fire Classification - A1



## COMPRESSION PACKED

Our industry leading **compression packaging technology** enables us to compress our insulation with up to 10:1 ratio in terms of volume of space which can be insulated compared to the volume of the packaged product. This means less handling, less storage space, less packaging used and less transport.



## NO HARMFUL INGREDIENTS

Earthwool insulation products have been awarded the Declare Red List Free label, where 100% of the ingredients are disclosed and **do not contain any Red List chemicals.**

Declare.



# Insulation for Metal Roofs



SCAN FOR MORE INFO



## Earthwool® Metal Roofing Roll (Unfaced)

Earthwool Metal Roofing Rolls are designed for quick and efficient installation in both single-skin and twin-skin profiled metal roof systems, including standing seam and bracketed rail constructions. Each roll is manufactured at 1,200 mm width to suit common purlin spans and support systems. The insulation is typically laid over or between purlins, and supported by roof sheeting, metal mesh, or spacer systems depending on the roof design.

The glasswool's soft, low-dust composition—enabled by ECOSE Technology—makes it lightweight and easy to handle, improving installer comfort and productivity. TwinTech Technology delivers a smooth finish and improved handling during placement and alignment.

Once installed, Earthwool insulation contributes to excellent thermal and acoustic performance, while its non-combustible and moisture-resistant properties support long-term durability, safety, and energy efficiency under metal cladding systems.



## SPECIFICATIONS

Product Code	R-Value (m <sup>2</sup> K/W)	Thermal Conductivity* <sup>①</sup> (W/mK)	Density (kg/m <sup>3</sup> )	Thickness (mm)	Width (mm)	Length (mm)	Area per pack (m <sup>2</sup> )	Pieces per pack
868897	1.41	0.0354	16	50	1,200	15,000	18.0	1
868899	1.45	0.0344	20	50	1,200	11,500	13.8	1
868902	1.50	0.0332	24	50	1,200	10,000	12.0	1

<sup>①</sup> In accordance with Clause 4.2.1 (b) of Malaysian standard MS1020 (Thermal insulation products for buildings – factory made mineral wool products), thermal resistance and thermal conductivity values shall be expressed with three significant figures.

\* Thermal conductivity 20°C λ Value (W/mK). All dimensions are nominal.

Please contact us for information on other densities and thicknesses.



### Superior sound absorption

Silence the noise for enhanced comfort



### Low water absorption advantage

Treated with silicone for exceptional moisture resistance



### Naturally non-combustible for safer buildings

Fully tested to Singapore's fire safety standards



### Space-saving and efficient packaging

More product, less space, cost effective



### Lower carbon footprint choice

Building responsibly with a lower environmental impact



### Installer-friendly insulation

Soft to handle, light weight, quick to install



### Healthy indoor air quality insulation

Low-VOC for healthier environments



## Earthwool® Metal Roofing Roll (Foil facing)

The foil facing with 97% reflective Aluminium foil, and reinforced by fire-resistant glass scrim enhances visibility by reflecting visible light, making it an ideal product for environments where optimal levels of internal lighting are required.

The glasswool's product with foil-facing lamination provides enhanced thermal and moisture management for metal roofing applications. The non-perforated foil facing acts as an effective vapor barrier, when taped and detailed correctly the product will prevent the passage of moisture into the insulation, thereby reducing the risk of condensation. This feature helps to maintain optimal indoor comfort by controlling both heat transfer and moisture infiltration.



## SPECIFICATIONS

Product Code	R-Value (m <sup>2</sup> K/W)	Thermal Conductivity* <sup>①</sup> (W/mK)	Density (kg/m <sup>3</sup> )	Thickness (mm)	Width (mm)	Length (mm)	Area per pack (m <sup>2</sup> )	Pieces per pack
868904	1.41	0.0354	16	50	1,200	13,000	15.6	1
868906	1.45	0.0344	20	50	1,200	10,500	12.6	1
868908	1.50	0.0332	24	50	1,200	9,000	10.8	1

<sup>①</sup> In accordance with Clause 4.2.1 (b) of Malaysian standard MS1020 (Thermal insulation products for buildings – factory made mineral wool products), thermal resistance and thermal conductivity values shall be expressed with three significant figures.

\* Thermal conductivity 20°C λ Value (W/mK). All dimensions are nominal.

## **Knauf Insulation Sdn Bhd**

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[www.knauf.com](http://www.knauf.com)



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**Build on us.**